

$$\begin{array}{ccccccc} \mathbb{R}^n & \xrightarrow{\text{injection}} & \mathbb{R}^m & \xrightarrow{\text{injection}} & \mathbb{R}^k & \xrightarrow{\text{injection}} & \mathbb{R}^l \\ \downarrow & & \downarrow & & \downarrow & & \downarrow \\ \mathbb{R}^n & \xrightarrow{\text{injection}} & \mathbb{R}^m & \xrightarrow{\text{injection}} & \mathbb{R}^k & \xrightarrow{\text{injection}} & \mathbb{R}^l \end{array}$$

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